

Climate Notes

Define the following terms

Weather:

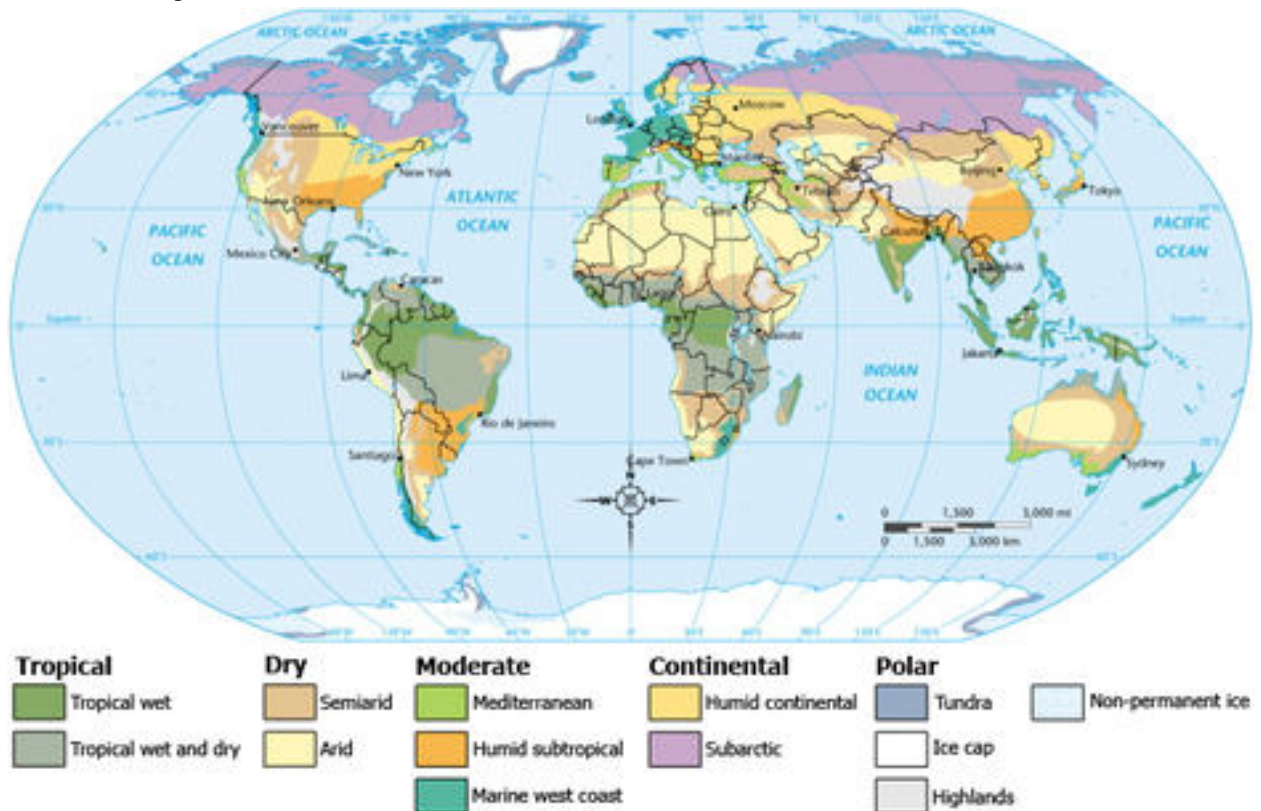
Seasons:

Climate Variation:

Climate Change:

Climate:

How many climate zones are there?



How is climate formed?

Atmosphere:

Currently there are _____ ppm of carbon dioxide in the atmosphere.

How does carbon dioxide, and other greenhouse gases trap heat in the atmosphere? Draw it

What would happen if there were too little carbon dioxide in the atmosphere?

What would happen if there were too much carbon dioxide in the atmosphere?

What is a Hadley cell? Draw it

Warm air _____ and creates _____ pressure

Cold air _____ and creates _____ pressure

The circulation of the atmosphere evenly distributes _____ and _____

Oceans:

The oceans have absorbed _____ of the heat gained by the planet

Without the oceans the world would be _____

Open ocean has _____ albedo

The ocean holds _____ carbon dioxide than the atmosphere

Is the ocean a carbon sink or a carbon source?

Ocean circulation distributes _____ and _____

Why is London so warm but Alaska is so cold, even they are at the same latitude?

Cryosphere:

What is the cryosphere?

What are the benefits of ice for the planet?

What are the parts of the cryosphere?